Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

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Enos Johnson 1, Enos Johnson 2 AUM Site

Navajo AUM Northern Region

Prepared by:

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Contract: W91238-06-F-0083

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Part I	Site Identification, Location and Status		
Site Names and ID numbers as applicable			
Mine ID:	410		
Map ID:	N279		
CERCLIS:	NNN000908878		
Navajo Abandoned Mine Land Reclamation Program: None			
Local name / Aliases: None			
Chapter and local area: Sanostee Chapter			
County: San	Juan State: New Mexico		
Lat/Long: 36.4112117629 N / -109.007300721 W			
Nearby road and highway: Indian Route 5010 Local Post Office: Sanostee, NM			
Surface Land Status: check one or more and provide ownership and contact information below			
Tribal Trust l Private Bureau of Las State	Tribal Fee Land		
Subsurface Mineral Rights:			
The mineral rights ownership was identified as Indian.			
Claim and operator information:			
The mine site surface land status is classified as Tribal Trust Land. Historical documents showed the operator of the mine as Enos Johnson in 1952, and R.D. Young from 1954 to 1955. No other historical ownership / lease information was identified in the EPA/AUM database.			
Number of residential structures within 200 feet of mine:			
None			
Estimated volume of mine waste onsite:			

Unknown

Part II Summary of radiological readings

Highest gamma radiation measurement:

11,526 counts per minute (cpm)

Describe any other radiological measurements:

Weston was unable to access the site, due to steep grades all known paths to the site were impassible. Measurements were collected in the vicinity of the site, from a plateau approximately 50' east of the site boundary. A total of 295 gamma radiation measurements were collected near the mine site, ranging from 6,134 cpm to 11,526 cpm. The measurements are represented in Figures 1 and 2.

Background Locations

Average background = 12,140 cpm

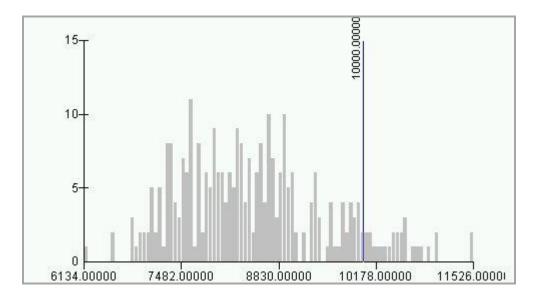
#1 11,789 cpm

#2 10,427 cpm

#3 14,206 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



 Count:
 295

 Minimum:
 6134,00000

 Maximum:
 11526,00000

 Sum:
 2500573,00000

 Mean:
 8476,51864

 Median:
 8327,00000

 Standard Deviation:
 1020,15185

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: No Waste Pile onsite: Yes

NAMLRP Project Number: None

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2009 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits

Unknown

Waste Piles

Unknown

Pits

Unknown

Shafts

Unknown

Other Debris and Mine Features

The site was inaccessible, therefore no other mine features were observed during the site visit.

Part IV

Site observations and Environs

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None

200 feet to 0.25 mile: None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

0.25 miles to 4 miles: None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents. Note information on mine ownership, type of mining operation, period of operation, known amount of production, and any other information as provided.

Enos Johnson, Enos Johnson 2 mine consists of an area of 85,151.76 m². The mine was identified as being operational from 1952 to 1955. Historical documents showed the operator of the mine as Enos Johnson in 1952, and R.D. Young from 1954 to 1955. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): Enos Johnson, Enos Johnson 2 **Chapter:** Cove

Decision Criteria

Is there an unreclaimed waste pile at the site? Unknown

At what distance from the waste pile is the nearest residential structure located? None

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? Unknown

Is the cap/seal functionally intact? Unknown

Is the cap/seal sufficiently degraded to create a concern about releases? Unknown

At what distance from the cap/seal is the nearest domestic structure located? None

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Unknown

Part VI Photos



Photo 1. Path towards site



Photo 2. Direction of site



Photo 3. Site below



Photo 4. Site below



Photo 5. Cliff area



Photo 6. Cliff area



Photo 7. Drainage above site



Photo 8. Site below



Photo 9. Site below



Photo 10. Site below

Name:

Part VII Contacts Reports and Information

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Title or official role (if any) Navajo EPA Superfund Program			
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Information provided <u>Lead Regulatory Agency</u>			
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Title or official role (if any)			
Address			
Telephone number			
Information provided			
Name_			
Title or official role (if any)			
Telephone number			
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